

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1 – 11 (Cancelled).

Claim 12 (Currently Amended) A computer-implemented method of transforming a body of data into a dimension-based partitioned cube, the method comprising ~~the steps of:~~

partitioning, by a computer executing code stored in a computer-readable memory, the data into one or more dimension-based partitions, the data partitioned along a single partitioning dimension;

creating member cubes corresponding to the one or more dimension-based partitions;

creating a control cube having metadata about the member cubes, the metadata including hierarchy information of the single partitioning dimension for the member cubes; and providing, by the control cube, control information used by a query engine to route queries to the member cubes and aggregate ~~accessing~~ the data that is distributed over the member cubes ~~through the control cube.~~

Claim 13 (Currently Amended) The method as claimed in claim 12, wherein the data is partitioned along ~~the~~ a time dimension.

Claim 14 (Original) The method as claimed in claim 13, wherein the data is partitioned into equidistant time intervals.

Claim 15 (Original) The method as claimed in claim 13, wherein the data is partitioned into non-equidistant time intervals.

Claim 16 (Original) The method as claimed in claim 13, wherein the data is partitioned into a sliding window of time intervals.

Claim 17 (Withdrawn): A method of querying a dimension-based partitioned cube, the method comprising the steps of:

analyzing a query received for a body of data organized into a dimension-based partition cube;

redirecting the query to one or more member cubes; and

aggregating results received from the one or more member cubes.

Claim 18 (Withdrawn): The method of claim 17, wherein the data is partitioned along the time dimension.

Claims 19 – 21 (Cancelled).

Claim 22 (Currently Amended) The method as claimed in claim 12, wherein creating the control cube further comprises:

~~including metadata describing how the member cubes are related to each other along the single partitioning dimension;~~

including in the metadata of the control cube a description describing of what the member cubes are, and how the member cubes are deployed in the metadata of the control cube.

Claim 23 (Currently Amended) The method as claimed in claim 12, wherein ~~accessing~~ aggregating the data ~~that is~~ distributed over the member cubes ~~through the control cube~~ comprises accessing an entire partitioned dimension relative to the member cubes.

Claim 24 (Currently Amended) The method as claimed in claim 12, further comprising adding metadata of an additional a member cube to the control cube.

Claim 25 (Currently Amended) The method as claimed in claim 12, further comprising removing metadata of a member cube of the member cubes from the control cube.

Claim 26 (New) The method as claimed in claim 12, further comprising:

storing data along one or more other dimensions in one or more of the member cubes;
and
storing one or more measures in the one or more of the member cubes,
wherein the metadata further includes a listing of the one or more other dimensions and a listing of the one or more measures.

Claim 27 (New) The method as claimed in claim 12, further comprising:

partitioning the data into one or more additional dimension-based partitions, wherein one of the member cubes comprises an additional control cube; and
creating additional member cubes corresponding to the one or more additional dimension-based partitions,
wherein the additional control cube has additional metadata about the additional member cubes.